

Art Unit: 3611

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1. (Amended) A display apparatus for displacement through a swing arc to produce a light display, comprising:

a support member having a plurality of spaced luminous devices disposed thereon;

said support member being movable through said swing arc;

said support member having lighting control means for selectively lighting individual respective ones of said luminous devices at predetermined discrete positions of the respective luminous devices within said swing arc as determined by detection of positions of said support member along said swing arc to create said light display along the swing arc of said support member; and

said lighting control means including a self-contained position detection means disposed on said support member for [deter] determining said positions of said support member and thereby positions of the respective luminous devices by having a body displaceable relative to said support member by movement of the support member and determining said position based on displacement of said body relative said support member.

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2. A display apparatus according to claim 1 further comprising means for moving said support member along a curvilinear path.

3. A display apparatus according to claim 1 further comprising means for moving said support member along a circular path.

4. A display apparatus according to claim 1 wherein said luminous devices are selected from the group consisting of Light Emitting Diodes and Vacuum Fluorescent Displays.

5. A display apparatus according to claim 1 wherein said luminous devices are arranged in a linear row.

6. A display apparatus according to claim 5 wherein said luminous devices are arranged in a plurality of linear rows.

7. A display apparatus according to claim 1 wherein said support member has an obverse side and a reverse side, said luminous devices being disposed on said obverse side and on said reverse side.

8. A display apparatus according to claim 1 wherein said support member is an elongated bar.

9. A display apparatus according to claim 1 further comprising:

said support member being an elongated bar on which said luminous devices are disposed; and

rotatable support means for rotatably supporting said elongated bar for rotation about a rotation axis.

10. A display apparatus according to claim 9 wherein said rotatable support means further comprises a motor means for rotating said elongated bar about said rotation axis.

11. A display apparatus according to claim 9 wherein said rotatable support further comprises a windmill means for rotating said elongated bar about said rotation axis.

12. The display apparatus according to claim 9 further comprising:

said elongated bar being mounted about said rotation axis at a substantial midpoint of said elongated bar; and

said elongated bar having first and second surfaces on opposing sides of said substantial midpoint having

opposing angles of inclination to effect rotation of said elongated member in response to wind.

13. A display apparatus according to claim 9 wherein said elongated bar has an outer end which transcribes a circle when said elongated bar rotates about said rotation axis.

14. A display apparatus according to claim 13 wherein said elongated bar has a length substantially equal to the radius of said circle.

15. A display apparatus according to claim 13 wherein said elongated bar has a length substantially equal to the diameter of said circle.

16. A display apparatus according to claim 1 wherein:

said body of said self-contained detection means includes a pendulum and said pendulum is a weight depending about a rotational support on said support member and contacts on said support member arranged such that said weight contacts a first contact when the support member is in one rotational position and said weight contacts a second contact when the support member is in another rotational position; and

said contacting of said first contact initiates said selective lighting of said luminous devices and said contacting of said second contact terminates said selective lighting of said luminous devices.

17. (Amended) A display apparatus according to claim 16 wherein said self-contained detecting means includes a slip-ring means rotatable with said support member and contact shoes [red] carried by said weight and slidably contacting said slip-ring for determining said positions of said support member and the respective luminous devices.

18. A display apparatus according to claim 1 wherein said self-contained detection means includes said body being a gyro means for detecting said positions of said support member and the respective luminous devices.

19. A display apparatus according to claim 1 further comprising:

said support member being an elongated bar on which said luminous devices are disposed;
rotatable support means for rotatably supporting said elongated bar for rotation about a rotation axis; and
said rotatable support means further including a means for rotating said elongated bar about said rotation axis.

-- 20. (New) A display apparatus for displacement through a swing arc to produce a light display, comprising:

a support member having a plurality of spaced luminous devices disposed thereon;

said support member being movable through said swing arc;

a detector for detecting movement of said support member at a starting position;

a clock device for providing timing relative to said detector detecting movement of said support member at said starting position; and

said support member having lighting control means for selectively lighting individual respective ones of said luminous devices of the respective luminous devices within said swing arc as determined by timing of said clock device as said support member moves along said swing arc to create said light display along the swing arc of said support member.

21. (New) A display apparatus according to claim 20 further comprising means for moving said support member along a curvilinear path.

22. (New) A display apparatus according to claim 20 further comprising means for moving said support member along a circular path.

23. (New) A display apparatus according to claim 20 wherein said luminous devices are selected from the group consisting of Light Emitting Diodes and Vacuum Fluorescent Displays.

24. (New) A display apparatus according to claim 20 wherein said luminous devices are arranged in a linear row.

25. (New) A display apparatus according to claim 24 wherein said luminous devices are arranged in a plurality of linear rows.

26. (New) A display apparatus according to claim 20 wherein said support member has an obverse side and a reverse side, said luminous devices being disposed on said obverse side and on said reverse side.

27. (New) A display apparatus according to claim 20 wherein said support member is an elongated bar.

28. (New) A display apparatus according to claim 20 further comprising: said support member being an elongated bar on which said luminous devices are disposed; and rotatable support means for rotatably supporting said elongated bar for rotation about a rotation axis.

29. (New) A display apparatus according to claim 28 wherein said rotatable support means further comprises a motor means for rotating said elongated bar about said rotation axis.

30. (New) A display apparatus according to claim 28 wherein said rotatable support further comprises a windmill means for rotating said elongated bar about said rotation axis.

31. (New) The display apparatus according to claim 28 further comprising: said elongated bar being mounted about said rotation axis at a substantial

midpoint of said elongated bar; and

said elongated bar having first and second surfaces on opposing sides of
said substantial midpoint having opposing angles of inclination to effect rotation
of said elongated member in response to wind.

32. (New) A display apparatus according to claim 28 wherein said
elongated bar has an outer end which transcribes a circle when said elongated
bar rotates about said rotation axis.

33. (New) A display apparatus according to claim 32 wherein said
elongated bar has a length substantially equal to the radius of said circle.

34. (New) A display apparatus according to claim 32 wherein said
elongated bar has a length substantially equal to the diameter of said circle.

35. (New) A display apparatus according to claim 20 wherein:
said detector includes a pendulum and said pendulum is a weight
depending about a rotational support on said support member, and contacts on
said support member arranged such that said weight contacts a first contact

when the support member is in said starting position and said weight contacts a second contact when the support member is in another position; and

said contacting of said first contact initiates said selective lighting of said luminous devices and said contacting of said second contact terminates said selective lighting of said luminous devices.

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